

# Continuous Release Reporting Form

Form Approved OMB No. 2050-0086  
Expiration Date: 11-30-2018

## SECTION I: GENERAL INFORMATION

CR-ERNS Number: 826,309

Date of Initial Release: Ongoing

Date of Initial Call to NRC: 10/11/2002

Type of Report: Select from the drop-down list, the type of report that you are submitting

Written Notification of a Change to Follow-up Report

**Signed Statement:** I certify that the hazardous substance releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.32 and that all submitted information is accurate and current to the best of my knowledge.

Date

01/05/16

Name and Position

Kevin Largent - Managing Director

Signature

*Kevin Largent*

## Part A. Facility or Vessel Information

Name of Facility or Vessel: Havana Power Station - Unit 6

Person in Charge of Facility or Vessel

Name

Kevin Largent

Position

Managing Director

Phone Number

+1 (309) 543-8712

Alt Phone No.

+1 (309) 262-2818

Facility Address or Vessel Port of Registration

Street

15260 N. State Street Route 78

County

Mason

City

Havana

State

IL

Zip Code

62644

Dun and Bradstreet Number for Facility: 804,405,074

Facility/Vessel Location

Latitude

Deg

40

Min

16

Sec

47

Longitude

Deg

90

Min

4

Sec

48

Vessel LORAN Coordinates

NOTE: Latitude Longitude information can be obtained at the following websites: <http://www.satsig.net/maps/lat-long-finder.htm>, <http://earth.google.com/>, and <http://www.census.gov/geo/landview/>. Do not use P.O. Box, Rural Route or Mailing Address. Use physical location only.

## Part B. Population Information

Population Density

Select from the drop-down list, the range that describes the population density within a one-mile radius of your facility or vessel.

101 - 500 persons

Sensitive Populations and Ecosystems within One-Mile Radius

Sensitive Populations or Ecosystems (e.g., elementary schools, hospitals, retirement communities, or wetlands)

Estimated Distance and Direction from Facility, if Known

None

# Continuous Release Reporting Form

Form Approved OMB No. 2050-0086  
Expiration Date: 11-30-2018

## SECTION II: SOURCE INFORMATION

CR-ERNS Number: 625,810

### Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet.*

Name of Source:

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:



Continuous without interruption

OR



routine, anticipated, intermittent & incidental to

*Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.*

2. Provide a brief statement describing the basis for stating that the release is continuous and stable in quantity and rate. If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate given the note above.

Havana generates electricity by the combustion of sub-bituminous coal in Unit 6

During the combustion process, the nitrogen that is present naturally in the coal, and the nitrogen and oxygen present in the combustion air combine to form NOx. Prior to being released to the atmosphere, the exhaust gas is passed through a large catalyst where the NOx reacts with the catalyst and anhydrous ammonia and is converted to nitrogen and water. Selective catalytic reduction removes between 80 and 90 percent of the NOx that is in the exhaust gas of a coal-fired power plant.

3. Identify below how you established the pattern or release and calculated release estimates.



Release data



Knowledge of Operating Procedures



Engineering estimate



Best Professional judgment

Other -

# Continuous Release Reporting Form

Form Approved OMB No. 2050-0086  
Expiration Date: 11-30-2018

## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number: 625,810

Name of Source: Havana Power Station - Unit 6

### Part B: Specific Information on the Source

For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source.

**AFFECTED MEDIUM.** Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.

☒ **AIR** If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.

☒ **Stack** Indicate stack height in feet or meters

502.5 ft

☐ **SURFACE WATER**

If the release affects any surface water body, give the name of the water body.

☐ **Surface Water Body**

☐ **Stream**

If the release affects a stream, give the stream order or average flow rate, in cubic feet per second.

Stream Order

OR

Average Flow Rate (cubic feet/second)

☐ **Lake**

Surface area of lake (in acres)

Average depth of lake (in meters)

If the release affects a lake, give the surface area of the lake in acres and the average depth in meters.

☐ **SOIL OR GROUND WATER**

If the release is on or under ground, the location of public water supply wells within two miles.

### Optional Information

The following information is not required to comply with the regulation, however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following information, if available:

Inside diameter (feet or meters)

20 feet

Gas Exit Velocity (ft or meters/sec)

81 ft/sec

Gas Temp (degrees Fahrenheit, Kelvin, or Celsius)

287 F

For a release to surface water, provide the following information, if available:

Average velocity of surface water (feet/second)

# Continuous Release Reporting Form

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## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number: 625,810

**Part C: Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source**  
*Please provide a SEPARATE sheet for EACH source.*

**Name of Source:** Havana Power Station - Unit 6

List each hazardous substance released from the source identified above and provide the following information. Include units where appropriate. Radionuclides in curies (Ci).

Name of Hazardous Substance	CASRN #	Normal Range (in lbs., kg, or Ci per day)		Number of Days Release Occurs (per year)	Total Quantity Released in Previous Year (in lbs., kg, or Ci)	Period of the Release
		Upper Bound	Lower Bound			
Ammonia	7664-39-3	196 lbs.	0	311	47,593 lbs.	Jan - Dec
Hydrogen Fluoride		12 lbs	0	311	2,959	Jan - Dec

List each mixture released from the source identified above and provide the following information. Include units where appropriate. Radionuclides in curies (Ci).

Name of Mixture	Name of Hazardous Substance Components	CASRN #	Weight Percentage	Normal Range of Components (in lbs., kg, or Ci per day)		Normal Range of Mixture (in lbs., kg, or Ci per day)		Number of Days Release Occurs (per year)	Total Quantity of Mixture Released in Previous Year (in lbs., kg or Ci)	Period of the Release
				Upper Bound	Lower Bound	Upper Bound	Lower Bound			

# Continuous Release Reporting Form

Form Approved OMB No. 2050-0086  
Expiration Date: 11-30-2018

## SECTION III: SUBSTANCE INFORMATION

CR-ERNS Number: 625,810

### Calculation of the SSI Trigger

*For EACH hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance.*

Name of Hazardous Substance: Ammonia

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)	Upper Bound of the Normal Range of the Release (specify lbs., kg., or Ci)
Havana Power Station - Unit 6	196 lbs.

**TOTAL - SSI trigger for this hazardous substance release\*:** 196 lbs

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*

# Continuous Release Reporting Form

Form Approved OMB No. 2050-0086  
Expiration Date: 11-30-2018

## SECTION III: SUBSTANCE INFORMATION

CR-ERNS Number: 625,810

### Calculation of the SSI Trigger

*For EACH hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance.*

Name of Hazardous Substance: Hydrogen Fluoride

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)	Upper Bound of the Normal Range of the Release (specify lbs., kg., or Ci)
Havana Power Station - Unit 6	2,959 lbs.

**TOTAL - SSI trigger for this hazardous substance release\*:** 2,959 lbs

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*

PL (111)  
Entered to C.R.E.  
Crossed file

**Dynegy Midwest Generation, Inc.**  
**Continuous Release Reporting**  
**February 2008**

Baldwin Energy Complex  
CR-ERNS Number - 625807  
Units 1, 2, and 3 – individual stacks

Chemicals Reported	Change in Upper Bounds
Hydrogen Fluoride	No Change
Mercury	No Change
Arsenic	No Change

Baldwin Energy Complex  
CR-ERNS Number – 625807  
Units 1 and 2 (Unit 3 has no SCR – no ammonia released)

Chemicals Reported	Change in Upper Bounds
Ammonia	Initially reported in 2007 and updated in 2008

Havana Power Station  
CR-ERNS Number – 625810  
Unit 6

Chemicals Reported	Change in Upper Bounds
Hydrogen Fluoride	No Change
Ammonia	Initially reported in 2007 and updated in 2008

Hennepin Power Station  
CR-ERNS Number – 711387  
Units 1 and 2 – One Common Stack

Chemicals Reported	Change in Upper Bounds
Hydrogen Fluoride	No Change

Vermilion Power Station  
CR-ERNS Number – 625811  
Units 1 and 2 – One Common Stack

Chemicals Reported	Change in Upper Bounds
Hydrochloric Acid (aerosol)	No Change
Hydrogen Fluoride	No Change

Wood River Power Station  
CR-ERNS Number – 625812  
Units 4 and 5 – Separate Stacks

Chemicals Reported	Change in Upper Bounds
Hydrogen Fluoride	No Change



**SECTION I: GENERAL  
INFORMATION**

CR-ERNS Number:

-826309  
625810

Date of Initial Release: Ongoing

Date of Initial Call to NRC: 02/12/2007

**Type of Report:** Indicate below the type of report you are submitting.☐

Initial Written Notification

☒First Anniversary  
Follow-up  
Report☐Written Notification  
of a Change to  
Initial Notification☒Written Notification  
of a Change to  
Follow-up Report**Signed Statement:** I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge.

Kirk Millis, Plant Manager

Name and Position

02/12/2008

Date

Kirk Millis

Signature

**Part A. Facility or Vessel Information**

Name of Facility or Vessel

Havana Power Station - Unit 6

**Person  
in Charge  
of Facility  
or Vessel**

Name of Person in Charge

A. Kirk Millis

Position

Plant Manager

Telephone No. (309)

543-8712

Alternate Telephone No. (309)

543-8751

**Facility  
Address or  
Vessel  
Port of  
Registration**

Street

15260 N. State Street

County

Mason

City

Havana

State

IL

Zip Code

62644

Dun and Bradstreet Number for Facility

804405074

**Facility/Vessel  
Location**

Latitude

Deg

40

Min

16

Sec

47

Longitude

Deg

90

Min

04

Sec

48

**Vessel LORAN Coordinates****Part B. Population Information****Population  
Density**

Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).

\_\_\_ 0 - 50 persons

\_\_\_ ☒ 101 - 500 persons

\_\_\_ more than 1000 persons

\_\_\_ 51 - 100 persons

\_\_\_ 501 - 1000 persons

**Sensitive  
Populations  
and  
Ecosystems  
Within One  
Mile Radius**

Sensitive Populations or Ecosystems

(e.g., schools, hospitals, wetlands, wildlife preserves, etc.)

Distance and direction from facility

None

**SECTION II: SOURCE  
INFORMATION**

**CR-ERNS Number:** 826309

**Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.**

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.*

**Name of Source:**

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:

continuous without interruption ☒ **OR** routine, anticipated, intermittent ☐

2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.\*

Havana generates electricity by the combustion of sub-bituminous coal in Unit 6.

3. Identify below how you established the pattern of release and calculated release estimates.

<input checked="" type="checkbox"/> Past release data	<input type="checkbox"/> Knowledge of the facility/vessel's operations and release history	<input type="checkbox"/> Engineering estimate
<input checked="" type="checkbox"/> AP-42	<input type="checkbox"/> Best professional judgment	<input type="checkbox"/> Other (explain)

\* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

**SECTION II: SOURCE  
INFORMATION  
(continued)**

**CR-ERNS Number:**

826309

**Name of Source:**

Havana Power Station - Unit 6

**Part B: Specific Information on the Source**

*For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.*

**AFFECTED MEDIUM.** Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to **EACH** medium as a separate source and complete Section II, Parts A, B, and C, of this format for **EACH** medium affected.

☒ **AIR** ☒ (stack \_\_\_\_ or area \_\_\_\_ ) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.

If identified source is a **stack**, indicate stack height: 502.5 ft. feet or meters; **OR**

If identified source is an **area source** (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: \_\_\_\_ square feet or square meters.

☒ **SURFACE WATER** \_\_\_\_ (stream \_\_\_\_, lake \_\_\_\_, or other \_\_\_\_ )

If the release affects any **surface water body**, give the name of the water body.

If the release affects a **stream**, give the stream order or average flow rate, in cubic feet per second.  
stream order: \_\_\_\_ or average flow rate: \_\_\_\_ cubic feet/second; **OR**

If the release affects a **lake**, give the surface area of the lake in acres and the average depth in meters.  
surface area of lake: \_\_\_\_ acres and average depth of lake: \_\_\_\_ meters.

☒ **SOIL OR GROUND WATER** \_\_\_\_

If the release is on or under ground, indicate the distance to the closest water well.

**Optional Information**

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. **If this information is not provided, EPA will make conservative assumptions about the appropriate values.** Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following information, if available:

Inside diameter 20 ft. feet or meters

Gas Exit Velocity 81 ft/sec. feet/second or  
meters/second

Gas Temperature 287 F degrees Fahrenheit,  
Kelvin, or Celsius

For a release to surface water, provide the following information, if available:

Average Velocity \_\_\_\_ feet/second  
of Surface Water

## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number: 625810

### Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a *SEPARATE* sheet for *EACH* source. Photocopy this page if necessary.

#### Name of Source:

Havana Power Station - Unit 6

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance	CASRN #	Normal Range (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	Months of the Release
		Upper Bound	Lower Bound			
Ammonia	7664-41-7	75 lbs.	0	285 days	16,806 lbs.	Jan. thru Dec.

*what about HCl?*

*No change in Hg per letter of 3/6/08*

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance Components	CASRN#	Normal Range of Components (in lbs. or kg per day)*				Weight Percentage	Mixture (in lbs. or kg per day)* Upper Bound Lower Bound	Number of Days Release Occurs (per year)	Total Quantity of Mixture Released in Previous Year (in lbs. or kg)	Months of the Release
		Upper Bound		Lower Bound						
		Upper Bound	Lower Bound	Upper Bound	Lower Bound					
Name of Mixture										

Not Applicable

\* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (Ci) are appropriate.

**SECTION III: SUBSTANCE  
INFORMATION**

**CR-ERNS Number:** 826309

**Calculation of the SSI Trigger**

*For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.*

**Name of Hazardous Substance:**

Ammonia CAS # 7664-41-7

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of  
the Release (specify lbs., kg, or Ci)

Havana Power Station - Unit 6

75 lbs

**TOTAL - SSI trigger for this hazardous substance release\* :** 75

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*

**SECTION I: GENERAL  
INFORMATION****CR-ERNS Number:** 826309**Date of Initial Release:** Ongoing**Date of Initial Call to NRC:** 02/12/2007**Type of Report:** Indicate below the type of report you are submitting.

☒ Initial Written Notification ☐ First Anniversary  
☐ Follow-up Report ☐ Written Notification  
of a Change to Initial Notification ☐ Written Notification  
of a Change to Follow-up Report

**Signed Statement:** I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge.

Kirk Millis, Plant Manager

Name and Position

3/22/2007

Date

Kirk Millis

Signature

**Part A. Facility or Vessel Information****Name of Facility or Vessel**

Havana Power Station - Unit 6

**Person  
in Charge  
of Facility  
or Vessel**

Name of Person in Charge

A. Kirk Millis

Position

Plant Manager

Telephone No. (309)

543-8712

Alternate Telephone No. (309)

543-8751

**Facility  
Address or  
Vessel  
Port of  
Registration**

Street

15260 N. State Street

County

Mason

City

Havana

State

IL

Zip Code

62644

**Dun and Bradstreet Number for Facility**

804405074

**Facility/Vessel  
Location**

Latitude

Deg

40

Min

16

Sec

47

Longitude

Deg

90

Min

04

Sec

48

**Vessel LORAN Coordinates****Part B. Population Information****Population  
Density**

Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).

\_\_\_ 0 - 50 persons

\_\_\_ ☒ 101 - 500 persons

\_\_\_ more than 1000 persons

\_\_\_ 51 - 100 persons

\_\_\_ 501 - 1000 persons

**Sensitive  
Populations  
and  
Ecosystems  
Within One  
Mile Radius**Sensitive Populations or Ecosystems  
(e.g., schools, hospitals, wetlands, wildlife preserves, etc.)

None

Distance and direction from facility

**SECTION II: SOURCE  
INFORMATION**

**CR-ERNS Number:** 826309

**Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.**

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.*

**Name of Source:**

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:

continuous without interruption ☒ **OR** routine, anticipated, intermittent ☐.

2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.\*

Havana generates electricity by the combustion of sub-bituminous coal in Unit 6.

3. Identify below how you established the pattern of release and calculated release estimates.

☒ Past release data ☐ Knowledge of the facility/vessel's operations and release history ☐ Engineering estimate

☒ AP-42 ☐ Best professional judgment ☐ Other (explain)

\* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

**SECTION II: SOURCE  
INFORMATION  
(continued)**

**CR-ERNS Number:** 826309

**Name of Source:** Havana Power Station - Unit 6

**Part B: Specific Information on the Source**

*For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.*

**AFFECTED MEDIUM.** Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to **EACH** medium as a separate source and complete Section II, Parts A, B, and C, of this format for **EACH** medium affected.

☒ **AIR** ☒ (stack \_\_\_\_ or area \_\_\_\_ ) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.

If identified source is a **stack**, indicate stack height: 502.5 ft. feet or meters; **OR**

If identified source is an **area source** (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: \_\_\_\_ square feet or square meters.

☒ **SURFACE WATER** \_\_\_\_ (stream \_\_\_\_, lake \_\_\_\_, or other \_\_\_\_ )

If the release affects any **surface water body**, give the name of the water body.

If the release affects a **stream**, give the stream order or average flow rate, in cubic feet per second.  
stream order: \_\_\_\_ or average flow rate: \_\_\_\_ cubic feet/second; **OR**

If the release affects a **lake**, give the surface area of the lake in acres and the average depth in meters.  
surface area of lake: \_\_\_\_ acres and average depth of lake: \_\_\_\_ meters.

☒ **SOIL OR GROUND WATER** \_\_\_\_

If the release is on or under ground, indicate the distance to the closest water well.

**Optional Information**

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. **If this information is not provided, EPA will make conservative assumptions about the appropriate values.** Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following information, if available:

Inside diameter 20 ft. feet or meters

Gas Exit Velocity 81 ft/sec. feet/second or  
meters/second

Gas Temperature 287 F degrees Fahrenheit,  
Kelvin, or Celsius

For a release to surface water, provide the following information, if available:

Average Velocity \_\_\_\_ feet/second  
of Surface Water



## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625810

### Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a *SEPARATE* sheet for *EACH* source. Photocopy this page if necessary.

#### Name of Source:

Havana Power Station - Unit 6

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance	CASRN #	Normal Range (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	Months of the Release
		Upper Bound	Lower Bound			
Ammonia	7664-41-7	111 lbs.	0	333 days	19,513 lbs.	Jan. thru Dec.

*Handwritten note:* 247 (247) - 92

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance Components	CASRN#	Weight Percentage		Normal Range of Components (in lbs. or kg per day)*		Normal Range of Mixture (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity of Mixture Released in Previous Year (in lbs. or kg)	Months of the Release
		Upper Bound	Lower Bound	Upper Bound	Lower Bound					
Not Applicable										

\* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (Ci) are appropriate.

**SECTION III: SUBSTANCE  
INFORMATION**

**CR-ERNS Number:** 826309

**Calculation of the SSI Trigger**

*For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.*

**Name of Hazardous Substance:** Ammonia CAS # 7664-41-7

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of  
the Release (specify lbs., kg, or Ci)

Havana Power Station - Unit 6

111 lbs

**TOTAL - SSI trigger for this hazardous substance release\* :** 111 lbs

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*

**SECTION I: GENERAL INFORMATION**

CR-ERNS Number: 625810

Date of Initial Release: Ongoing

Date of Initial Call to NRC: 10/11/2002

**Type of Report:** Indicate below the type of report you are submitting.

☐ Initial Written Notification ☐ First Anniversary Follow-up Report ☐ Written Notification of a Change to Initial Notification ☒ Written Notification of a Change to Follow-up Report

**Signed Statement:** I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge.

Kirk Millis, Plant Manager

Name and Position

2/28/2006

Date

Kirk Millis

Signature

**Part A. Facility or Vessel Information**

Name of Facility or Vessel

Havana Power Station - Unit 6

**Person in Charge of Facility or Vessel**

Name of Person in Charge

A. Kirk Millis

Position

Plant Manager

Telephone No. (309)

543-8712

Alternate Telephone No. (309)

543-8751

**Facility Address or Vessel Port of Registration**

Street

15260 N. State Street

County

Mason

City

Havana

State

IL

Zip Code

62644

Dun and Bradstreet Number for Facility

804405074

**Facility/Vessel Location**

Latitude

Deg

40

Min

16

Sec

47

Longitude

Deg

90

Min

04

Sec

48

**Vessel LORAN Coordinates****Part B. Population Information****Population Density**

Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).

\_\_\_ 0 - 50 persons

\_\_\_ ☒ 101 - 500 persons

\_\_\_ more than 1000 persons

\_\_\_ 51 - 100 persons

\_\_\_ 501 - 1000 persons

**Sensitive Populations and Ecosystems Within One Mile Radius**

Sensitive Populations or Ecosystems (e.g., schools, hospitals, wetlands, wildlife preserves, etc.)

Distance and direction from facility

None

**SECTION II: SOURCE  
INFORMATION**

**CR-ERNS Number:** 625810

**Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.**

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.*

**Name of Source:**

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:

continuous without interruption ☒ **OR** routine, anticipated, intermittent ☐

2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.\*

Havana generates electricity by the combustion of sub-bituminous coal in Unit 6.

3. Identify below how you established the pattern of release and calculated release estimates.

<input checked="" type="checkbox"/> Past release data	<input type="checkbox"/> Knowledge of the facility/vessel's operations and release history	<input type="checkbox"/> Engineering estimate
<input checked="" type="checkbox"/> AP-42	<input type="checkbox"/> Best professional judgment	<input type="checkbox"/> Other (explain)

\* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

**SECTION II: SOURCE  
INFORMATION  
(continued)**

**CR-ERNS Number:**

625810

**Name of Source:**

Havana Power Station - Unit 6

**Part B: Specific Information on the Source**

*For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.*

**AFFECTED MEDIUM.** Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to **EACH** medium as a separate source and complete Section II, Parts A, B, and C, of this format for **EACH** medium affected.

☒ **AIR** ☒ (stack \_\_\_\_ or area \_\_\_\_ ) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.

- If identified source is a **stack**, indicate stack height: 502.5 ft. feet or meters; **OR**
- If identified source is an **area source** (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: \_\_\_\_ square feet or square meters.

☒ **SURFACE WATER** \_\_\_\_ (stream \_\_\_\_, lake \_\_\_\_, or other \_\_\_\_ )

- If the release affects any **surface water body**, give the name of the water body.  
\_\_\_\_\_
- If the release affects a **stream**, give the stream order or average flow rate, in cubic feet per second.  
stream order: \_\_\_\_ or average flow rate: \_\_\_\_ cubic feet/second; **OR**
- If the release affects a **lake**, give the surface area of the lake in acres and the average depth in meters.  
surface area of lake: \_\_\_\_ acres and average depth of lake: \_\_\_\_ meters.

☒ **SOIL OR GROUND WATER** \_\_\_\_

If the release is on or under ground, indicate the distance to the closest water well.  
\_\_\_\_\_

**Optional Information**

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. **If this information is not provided, EPA will make conservative assumptions about the appropriate values.** Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

• For a stack release to air, provide the following information, if available:

Inside diameter 20 ft. feet or meters

Gas Exit Velocity 81 ft/sec. feet/second or  
meters/second

Gas Temperature 287 F degrees Fahrenheit,  
Kelvin, or Celsius

• For a release to surface water, provide the following information, if available:

Average Velocity \_\_\_\_ feet/second  
of Surface Water

## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number: 625810

### Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

#### Name of Source:

Havana Power Station - Unit 6

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance	CASRN #	Normal Range (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	Months of the Release
		Upper Bound	Lower Bound			
Hydrogen Fluoride	7664-39-3	756 lbs.	0	272 days	144,231 lbs.	Jan. thru Dec.

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance Components	CASRN#	Normal Range of				Weight Percentage	Number of Days Release Occurs (per year)	Total Quantity of Mixture Released in Previous Year (in lbs. or kg)	Months of the Release
		Components (in lbs. or kg per day)*		Mixture (in lbs. or kg per day)*					
		Upper Bound	Lower Bound	Upper Bound	Lower Bound				
Name of Mixture									

Not Applicable

\* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (Ci) are appropriate.

**SECTION III: SUBSTANCE  
INFORMATION**

CR-ERNS Number: 625810

**Calculation of the SSI Trigger**

*For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.*

**Name of Hazardous Substance:** Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of  
the Release (specify lbs., kg, or Ci)

Havana Power Station - Unit 6

756 lbs

**TOTAL - SSI trigger for this hazardous substance release\* :** 756 lbs

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*

**SECTION I: GENERAL INFORMATION****CR-ERNS Number:** 625810**Date of Initial Release:** Ongoing**Date of Initial Call to NRC:** 10/11/2002**Type of Report:** Indicate below the type of report you are submitting.

☐ Initial Written Notification ☒ First Anniversary Follow-up Report ☐ Written Notification of a Change to Initial Notification ☐ Written Notification of a Change to Follow-up Report

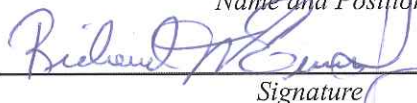
**Signed Statement:** I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge.

Richard W. Eimer, Jr., Sr. Vice President

Name and Position

1/26/2004

Date

  
Signature**Part A. Facility or Vessel Information****Name of Facility or Vessel**

Havana Power Station - Unit 6

**Person in Charge of Facility or Vessel**

Name of Person in Charge

A. Kirk Millis

Position

Plant Manager

Telephone No. (309) 543-227 ext.212

Alternate Telephone No. (309) 543-2227 ext.251

**Facility Address or Vessel Port of Registration**

Street

15260 N. State Street

County

Mason

City

Havana

State

IL

Zip Code

62644

**Dun and Bradstreet Number for Facility**

804405074

**Facility/Vessel Location**

Latitude

Deg 40

Min 16

Sec 47

Longitude

Deg 90

Min 04

Sec 48

**Vessel LORAN Coordinates****Part B. Population Information****Population Density**

Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).

\_\_\_ 0 - 50 persons

\_\_\_ ☒ 101 - 500 persons

\_\_\_ more than 1000 persons

\_\_\_ 51 - 100 persons

\_\_\_ 501 - 1000 persons

**Sensitive Populations and Ecosystems Within One Mile Radius**

Sensitive Populations or Ecosystems (e.g., schools, hospitals, wetlands, wildlife preserves, etc.)

Distance and direction from facility

None



## SECTION II: SOURCE INFORMATION

**CR-ERNS Number:** 625810

**Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.**

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.*

**Name of Source:**

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:

continuous without interruption \_\_\_\_\_X\_\_\_\_\_ OR routine, anticipated, intermittent \_\_\_\_\_.

2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.\*

Havana generates electricity by the combustion of coal in Unit 6.

3. Identify below how you established the pattern of release and calculated release estimates.

☒ Past release data      ☐ Knowledge of the facility/vessel's operations and release history      ☐ Engineering estimate

☒ AP-42 \_\_\_\_\_ Best professional judgment \_\_\_\_\_ Other (explain)

Reporting is based on generation at maximum load for a 24-hour period.

\* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

625810

### Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a *SEPARATE* sheet for *EACH* source. Photocopy this page if necessary.

Name of Source:

Havana Power Station - Unit 6

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance	CASRN #	Normal Range (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	Months of the Release
		Upper Bound	Lower Bound			
Hydrogen Fluoride	7664-39-3	694 lbs.	0	299 days	159,724 lbs.	Jan. thru Dec.

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance Components	CASRN#	Weight Percentage		Normal Range of Components (in lbs. or kg per day)*		Normal Range of Mixture (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity of Mixture Released in Previous Year (in lbs. or kg)	Months of the Release
		Upper Bound	Lower Bound	Upper Bound	Lower Bound					
Name of Mixture										

Not Applicable

\* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (Ci) are appropriate.

**SECTION III: SUBSTANCE  
INFORMATION**

**CR-ERNS Number:** 625810

**Calculation of the SSI Trigger**

*For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.*

**Name of Hazardous Substance:** Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of  
the Release (specify lbs., kg, or Ci)

Havana Power Station - Unit 6

694 lbs

**TOTAL - SSI trigger for this hazardous substance release\* :** 694 lbs

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*

**SECTION I: GENERAL INFORMATION****CR-ERNS Number:** 625810**Date of Initial Release:** Ongoing**Date of Initial Call to NRC:** 10/11/2002**Type of Report:** Indicate below the type of report you are submitting.

☒ Initial Written Notification ☐ First Anniversary Follow-up Report ☐ Written Notification of a Change to Initial Notification ☐ Written Notification of a Change to Follow-up Report

**Signed Statement:** I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge.

Richard W. Eimer, Jr., Sr. Vice President

11/6/2002

Date

Name and Position

Signature

**Part A. Facility or Vessel Information****Name of Facility or Vessel**

Havana Power Station

**Person in Charge of Facility or Vessel**

Name of Person in Charge

A. Kirk Millis

Position

Plant Manager

Telephone No. (309) 543-227 ext.212

Alternate Telephone No. (309) 543-2227 ext.251

**Facility Address or Vessel Port of Registration**

Street

15260 N. State Street

County

Mason

City

Havana

State

IL

Zip Code

62644

**Dun and Bradstreet Number for Facility**

804405074

**Facility/Vessel Location**

Latitude

Deg

40

Min

16

Sec

47

Longitude

Deg

90

Min

04

Sec

48

**Vessel LORAN Coordinates****Part B. Population Information****Population Density**

Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).

\_\_\_ 0 - 50 persons

\_\_\_ ☒ 101 - 500 persons

\_\_\_ more than 1000 persons

\_\_\_ 51 - 100 persons

\_\_\_ 501 - 1000 persons

**Sensitive Populations and Ecosystems Within One Mile Radius**

Sensitive Populations or Ecosystems (e.g., schools, hospitals, wetlands, wildlife preserves, etc.)

Distance and direction from facility

**SECTION II: SOURCE  
INFORMATION**

**CR-ERNS Number:** 625810

**Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.**

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.*

**Name of Source:**

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:

continuous without interruption ☒ **OR** routine, anticipated, intermittent ☐

2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.\*

Havana generates electricity by the combustion of coal in Unit 6.

3. Identify below how you established the pattern of release and calculated release estimates.

☒ Past release data ☐ Knowledge of the facility/vessel's operations and release history ☐ Engineering estimate

☒ AP-42 ☐ Best professional judgment ☐ Other (explain)

Reporting is based on generation at maximum load for a 24-hour period.

\* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

**SECTION II: SOURCE  
INFORMATION  
(continued)**

**CR-ERNS Number:**

625810

**Name of Source:**

Havana Power Station - Unit 6

**Part B: Specific Information on the Source**

*For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.*

**AFFECTED MEDIUM.** Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to **EACH** medium as a separate source and complete Section II, Parts A, B, and C, of this format for **EACH** medium affected.

☒ **AIR** ☒ (stack \_\_\_\_ or area \_\_\_\_ ) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.

- If identified source is a **stack**, indicate stack height: 502.5 ft feet or meters; **OR**
- If identified source is an **area source** (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: \_\_\_\_ square feet or square meters.

☒ **SURFACE WATER** \_\_\_\_ (stream \_\_\_\_, lake \_\_\_\_, or other \_\_\_\_ )

- If the release affects any **surface water body**, give the name of the water body.  
\_\_\_\_\_
- If the release affects a **stream**, give the stream order or average flow rate, in cubic feet per second.  
stream order: \_\_\_\_ or average flow rate: \_\_\_\_ cubic feet/second; **OR**
- If the release affects a **lake**, give the surface area of the lake in acres and the average depth in meters.  
surface area of lake: \_\_\_\_ acres and average depth of lake: \_\_\_\_ meters.

☒ **SOIL OR GROUND WATER** \_\_\_\_

If the release is on or under ground, indicate the distance to the closest water well.  
\_\_\_\_\_

**Optional Information**

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. **If this information is not provided, EPA will make conservative assumptions about the appropriate values.** Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

- For a stack release to air, provide the following information, if available:  
Inside diameter 20 ft feet or meters  
Gas Exit Velocity 81 ft/sec feet/second or  
meters/second  
Gas Temperature 287 F degrees Fahrenheit,  
Kelvin, or Celsius

- For a release to surface water, provide the following information, if available:  
Average Velocity \_\_\_\_ feet/second  
of Surface Water

## SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number: 625810

### Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Please provide a *SEPARATE* sheet for *EACH* source. Photocopy this page if necessary.

#### Name of Source:

Havana Power Station - Unit 6

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance	CASRN #	Normal Range (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	Months of the Release
		Upper Bound	Lower Bound			
Hydrogen Fluoride	7664-39-3	354 lbs.	0	230 days	54,254 lbs.	Jan. thru Dec.

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

Name of Hazardous Substance Components	CASRN#	Weight Percentage	Normal Range of Components (in lbs. or kg per day)*		Normal Range of Mixture (in lbs. or kg per day)*		Number of Days Release Occurs (per year)	Total Quantity of Mixture Released in Previous Year (in lbs. or kg)	Months of the Release
			Upper Bound	Lower Bound	Upper Bound	Lower Bound			

Name of Mixture

Not Applicable

\* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (Ci) are appropriate.

**SECTION III: SUBSTANCE  
INFORMATION**

**CR-ERNS Number:** 625810

**Calculation of the SSI Trigger**

*For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.*

**Name of Hazardous Substance:** Hydrogen Fluoride CAS # 7664-39-3

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of  
the Release (specify lbs., kg, or Ci)

Havana Power Station - Unit 6

354 lbs

**TOTAL - SSI trigger for this hazardous substance release\* :** 354 lbs

*\* This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.*



**SECTION I: GENERAL  
INFORMATION****CR-ERNS Number:** 625810**Date of Initial Release:** Ongoing**Date of Initial Call to NRC:** 10/11/2002**Type of Report:** Indicate below the type of report you are submitting.☒ Initial Written Notification☐ First Anniversary  
Follow-up Report☒ Written Notification  
of a Change to  
Initial Notification☐ Written Notification  
of a Change to  
Follow-up Report

**Signed Statement:** I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is accurate and current to the best of my knowledge.

Richard W. Eimer, Jr., Sr. Vice President

11/14/2002

Date

Name and Position



Signature

**Part A. Facility or Vessel Information****Name of Facility or Vessel**

Havana Power Station - Unit 6

**Person  
in Charge  
of Facility  
or Vessel**

Name of Person in Charge

A. Kirk Millis

Position

Plant Manager

Telephone No. (309) 543-227 ext.212

Alternate Telephone No. (309) 543-2227 ext.251

**Facility  
Address or  
Vessel  
Port of  
Registration**

Street

15260 N. State Street

County

Mason

City

Havana

State

IL

Zip Code

62644

**Dun and Bradstreet Number for Facility**

804405074

**Facility/Vessel  
Location**

Latitude

Deg 40

Min 16

Sec 47

Longitude

Deg 90

Min 04

Sec 48

**Vessel LORAN Coordinates****Part B. Population Information****Population  
Density**

Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).

\_\_\_ 0 - 50 persons

\_\_\_ ☒ 101 - 500 persons

\_\_\_ more than 1000 persons

\_\_\_ 51 - 100 persons

\_\_\_ 501 - 1000 persons

**Sensitive  
Populations  
and  
Ecosystems  
Within One  
Mile Radius**Sensitive Populations or Ecosystems  
(e.g., schools, hospitals, wetlands, wildlife preserves, etc.)

Distance and direction from facility

None

**SECTION II: SOURCE  
INFORMATION**

**CR-ERNS Number:** 625810

**Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.**

*For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.*

**Name of Source:**

Havana Power Station - Unit 6

1. Indicate whether the release from this source is either:

continuous without interruption ☒ **OR** routine, anticipated, intermittent ☐.

2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.\*

Havana generates electricity by the combustion of bituminous coal in Unit 6.

3. Identify below how you established the pattern of release and calculated release estimates.

☒ Past release data ☐ Knowledge of the facility/vessel's operations and release history ☐ Engineering estimate

☒ AP-42 ☐ Best professional judgment ☐ Other (explain)

\* Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.